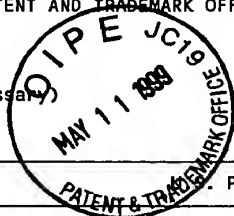


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PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MA</i>	AA	5 7 6 0 2 1 5	08/04/98	Berns et al.	435	172.3	
	AF	5 5 7 0 4 6 1	11/26/96	Sherwin et al.	435	69.1	
	AF	5 3 5 6 8 0 4	10/18/94	Desnick et al.	455	208	
	AF	5 2 7 2 0 7 1	12/21/93	Chappel	435	172.3	
	AF	5 1 7 1 6 7 4	12/15/92	Stevens et al.	435	69.1	
	AF	4 0 0 2 5 3 0	01/09/90	Aebisher et al.			
	AF	4 7 0 0 5 5 0	12/06/88	Hommel et al.		1	
	AH	4 7 5 1 3 4 6	06/14/88	Malmberg et al.	800	1	
	AF	4 4 9 7 7 9 6	02/05/85	Salser			

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
<i>MA</i>	AJ	WO 95/31560	08/23/95	PCT				
	AK	WO 95/21626	08/17/95	PCT				
	AL	WO 95/18858	07/13/95	PCT				
	AM	WO 94/12650	07/09/94	PCT				
	AN	WO 94/10567	05/11/94	PCT				
	AO	WO 94/05784	03/17/94	PCT				
	AP	WO 93/09222	05/13/93	PCT				
	AQ	WO 93/03164	02/18/93	PCT				
	AR	WO 91/19796	12/26/91	PCT				
	AS	WO 91/13151	09/05/91	PCT				

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

<i>MA</i>	AT	Alberts, Molecular Biology of the Cell (Glossary), third edition, Garland Publishing, Inc., New York
	AU	Antin et al., Biotechniques, 6:640-42 (1988)
	AV	ATCC Catalogue of Cell Lines & Hybridomas, pp. 1-5, 42, 67, 85, 139, 147 (1985)

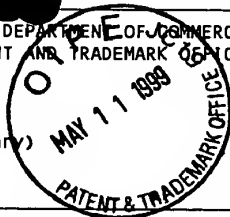
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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							YES	NO
ALL	BA	WO 91/09955	07/11/91	PCT				
	BB	WO 91/06667	05/16/91	PCT				
	BC	WO 91/06666	05/16/91	PCT				
	BD	WO 90/11354	10/04/90	PCT				
	BE	WO 90/06757	06/28/90	PCT				
	BF	WO 89/01517	02/23/89	PCT				
	BG	WO 88/08306	11/03/88	PCT				
	BH	WO 87/00201	11/15/87	PCT				
	BI	GB 2 159 172	11/27/85	Great Britain				
	BJ	EP 0 529 300 A1	07/21/92	Europe				
	BK	EP 0 452 894 A	10/23/91	Europe				
	BL	EP 0 289 034	11/27/96	Europe				
	BN	EP 0 038 765 B	09/02/87	Europe				
	BN	EP Opposition	05/04/98	On behalf of Applied Research Systems				
	BN	EP Opposition	05/04/98	On behalf of Boehringer Mannheim GMBH				
	BN	EP Opposition	05/04/98	On behalf of Cell Genesys, Inc.				
	BN	EP Opposition	04/30/98	On behalf of Genetic Therapy, Inc.				
	BW	EP Opposition	04/30/98	On behalf of Institut Pasteur				

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

ALL	BS	ATCC Catalogue of Fungi/Yeasts, pp. 324-346 (1987)	MAY 10 1999
	BT	Bartley et al., Cell, 77:1117-1124 (1994)	MAY 10 1999
	BU	Behr et al., Proc. Nat'l Acad. Sci. USA, 86:6982-86 (1989)	
	BV	Bennett et al., Mol. Biol. Med., 7:471-77 (1990)	MAY 10 1999
	BW	Boggs, S., International Journal of Cell Cloning, 8:80-96 (1990)	MAY 10 1999

EXAMINER

N. KETTON

DATE CONSIDERED

28 JAN 01

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Douglas A. Treco et al.

(37 CFR 1.98(b))

FILING DATE
January 6, 1999GROUP
1636

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

CA	Brash et al., Mol. Cell. Biol., 7:2031-34 (1987)
CB	Brenner et al., Mol. Biol. Med., 7:105-15 (1990)
CC	Brigham et al., Am. J. Respir. Cell. Mol. Biol., 1:95-100 (1989)
CD	Browne et al., Cold Spring Harbor Symposia on Quantitative Biology, Vol. LI, Cold Spring Harbor Laboratory, p. 693-702 (1986)
CE	Burrin et al., Mol. Endocrinol., 3:1643-51 (1989)
CF	Busby et al., Nature, 316:271-273 (1985)
CG	Cann et al., Oncogen, 3:123-28 (1988)
CH	Capeocchi, Science, 244:1288-1292 (1989)
CI	Chang et al., Biochem. Biophys. Act., 1092:153-160 (1991)
CJ	Chang et al., Mol. Biol. Med., 7:461-70 (1990)
CK	Claverlie et al., Nature, 371:752 (1994)
CJ	Cline, Pharmac. Ther., 29:69-92 (1986)
CM	Daubas et al., Nucleic Acids Research, 16(4):1251-1271 (1988)
CN	De la Salle et al., Nature, 316:268-270 (1985)
CO	de Sauvage et al., Nature, 369:533-538 (1994)

EXAMINER

V. KETTER

DATE CONSIDERED

28 JAN 01

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
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Douglas A. Treco et al.

(37 CFR 1.98(b))

FILING DATE
January 6, 1999GROUP
4643 1636

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

DA	Diatloff-Zito et al., Proc. Nat'l Acad. Sci. USA, 83:7034-38 (1986)
DB	Doering et al., J. Neurosci. Res., 29:292-98 (1991)
DC	Doetschmann et al., PNAS, 85:8583-8587 (1988)
DD	Drucker et al., J. Biol. Chem., 261:9637-9643 (1986)
DE	Duncan & Reddell, Biochemistry (Moscow), 62:1263-1274 (1997)
DF	Editorial from Nature Biotechnology, 15:815 (1997)
DG	Faulds et al., Drugs, 38:863-899 (1989)
DH	Foster et al., Proc. Nat. Acad. Sci. USA, 91:13023-13027 (1994)
DI	Fountain et al., Gene, 68:167-172 (1988)
DJ	French Anderson, Nature, 392(Supp):25-30 (1998)
DK	Friedmann, Science, 244:1275-1280 (1989)
DL	Fuchs et al., New Eng. J. Med., 331:637-642 (1994)
DM	Gao et al., Biochem. Biophys. Res. Commun., 179:280-85 (1991)
DN	Gareis et al., Cell. Mol. Biol., 37:191-203 (1991)
DO	Ginot et al., Eur. J. Biochem., 180:289-94 (1989)

EXAMINER

J. KETTON

DATE CONSIDERED

28 JAN 01

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(37 CFR 1.98(b))

FILING DATE
January 6, 1999GROUP
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

EA	Glover (ed.), IRL Press, pp. 144-148 (1985)
EB	Harper et al., J. Invest. Dermatol., 91:150-53 (1988)
EC	Hesse et al., Proc. Nat'l Acad. Sci USA, 83:4312-16 (1986)
ED	Iannuzzi et al., Am. Rev. Respir. Dis., 138:965-68 (1988)
EE	Itzhaki et al., Nucleic Acids Research, 19(14):3835-42 (1991)
EF	Jensen et al., Exp. Cell Res., 189:163-68 (1990)
EG	Jurka et al., J. Mol. Evol., 32:105-121 (1991)
EH	Kaufman, Technique, 2:221-236 (October 1990)
EI	Kaushansky et al., Letters to Nature, 369:568-571 (1994)
EL	Keating et al., Exp. Hematol., 18:99-102 (1990)
EK	Keating et al., Prog. Clin. Biol. Res., 333:491-98 (1990)
EL	Keene et al., The Journal of Biochemistry, 264:4769-4775 (1989)
EH	Kremer et al., J. Clin. Invest., 87:884-93 (1991)
EN	LeMouellic et al., PNAS, 87:4712-16 (1990)
EN	Li et al., Cancer Research, 50:5328-5332 (September 1, 1990)

EXAMINER

J. Ketter

DATE CONSIDERED

28 JAN 01

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SUBSTITUTE FORM PTO-1449
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Douglas A. Treco et al.FILING DATE
January 6, 1999GROUP
1636

(37 CFR 1.98(b))

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

FA	Litwer et al., J. Biol. Chem., 264:14597-600 (1988)
FB	Loeffler et al., J. Neurochem., 54:1812-15 (1990)
FC	Lok et al., Letters to Nature, 369:565-568 (1994)
FD	Lu et al., Pfugers Arch., 415:198-203 (1989)
FE	Mansour et al., Nature, 336:348-352 (1988)
FF	May and Sehgal, J. of Interferon Research, 5:521-526 (1985)
FG	McDonald, Experimental Hematology, 16:201-205 (1988) (in Chemical Abstracts 108:124584)
FH	Mercola et al., Ann. NY Acad. Sci., 397:272-80 (1982)
FI	Mes-Masson et al., J. Cell. Sci., 94:517-25 (1989)
FJ	Metcalf, Nature, 369:519-520 (1994)
FK	Migliaccio et al., The Journal of Cell Biology, 109:833-841 (1989)
FL	Morgan et al., Science, 237:1476-1479 (1987)
FM	Nagy et al., Journal of Cell Science, 87:651-655 (1987)
FN	Narayanan et al., Biochem. Biophys. Res. Comm., 141:1018-24 (1986)
FO	Ohno et al., Nucleic Acids Research, 10:967-977 (1982)

EXAMINER

J. Netten

DATE CONSIDERED

28 JAN 01

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(37 CFR 1.98(b))

FILING DATE
January 6, 1999GROUP
1643 1636

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

GA	Orkin et al., Report and Recommendations of the Panel to Assess the NIH Investment in Research on Gene Therapy, NIH, 1995
GB	Palmiter et al., Science, 222:809-814 (1983)
GC	Pasco et al., DNA, 8:535-41 (1989)
GD	Pecceu et al., Gene, 97:253-258 (1991)
GE	Pentchev et al., The Journal of Biological Chemistry, 218:5256-5261 (1973)
GF	Ponder et al., Hum. Gene. Ther., 2:41-52 (1991)
GG	Ponticelli et al., Nephron, 52:201-208 (1989)
GH	Potter, Anal. Biochem., 174:361-73 (1988)
GI	Rippe et al., Mol. Cell. Biol., 10:689-95 (1990)
GJ	Robertson, Biol. Reprod., 44:238-45 (1991)
GK	Scharfmann et al., Proc. Nat'l. Acad. Sci. USA, 88:4626-30 (1991)
GL	Sedivy et al., Proc. Nat'l Acad. Sci. USA, 86:227-231 (1989)
GM	Selden et al., Science, 236:714-18 (1987)
GN	Selden et al., New England Journal of Medicine, 317(17):1067-76 (1987)
GO	Shak et al., PNAS, 87:9188-9192 (December 1990)

EXAMINER

J. Ketten

DATE CONSIDERED

JAN 28 1999

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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FILING DATE
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1643

1636

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

HA	Shesely et al., Proc. Nat'l Acad. Sci. USA, 88:4294-98 (1991)
HB	Sohma et al., FEBS Lett., 353:57-61 (1994)
HC	Sorge et al., PNAS, 84:906-909 (1987)
HD	Stacey et al., Immunol. Cell. Biol., 71 (Pt 2):75-85 (1993)
HE	Tatsuka et al., Exp. Cell Res., 178:154-62 (1988)
HF	Thomas et al., Nature, 346:847-50 (1990)
HG	Thomas et al., Cell, 51:503-512 (1987)
HH	Thompson et al., Cell, 56:313-21 (1989)
HI	Toneguzzo et al., Proc. Nat'l Acad. Sci., 83:3496-99 (1986)
HJ	Tur-kaspa et al., Mol. Cell. Biol., 6:716 (1986)
HK	Vega, Hum. Genet., 87:245-53 (1991)
HL	Verma, Scientific American, 68-84 (11/90)
HM	Verma et al., Nature, 389:239-242 (1997)
HN	Vogelstein et al., Trends Genet 9, 138-141 (1993)
HO	Weidle et al., Gene, 73:427-37 (1988)

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DATE CONSIDERED

28 JAN 01

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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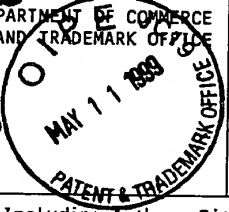
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FILING DATE
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GROUP

1636

(37 CFR 1.98(b))



OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

IA	Werner et al., J. Neurosci. Res., 25:50-57 (1990)
IB	Wolff et al., Science, 247:1465-1468 (1990)
IC	Yang et al., Proc. Nat'l Acad. Sci. USA, 87:9568-72 (1990)
ID	Zheng et al., Pro. Nat'l Acad. Sci. USA, 88:8067-71 (1991)
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J. KETTON

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